

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION
OFFICE OF PESTICIDE PROGRAMS REGISTRATION DIVISION (7505P)



DP BARCODE No.: 415804; **FILE SYMBOL No.:** 83100-GL; **PRODUCT NAME:** Eamectin Benzoate 4% SL; **DECISION No.:** 483360; **PC Code(s):** 122806; **ACTION CODE:** R310; **FOOD Use:** No

DATE OUT: April 8, 2014

SUBJECT: End Use Product Chemistry Review
Product name: Eamectin Benzoate 4% SL

FROM: Shyam Mathur, Ph. D
Product Chemistry Team Leader
Technical Review Branch/RD (7505P)

Shyam Mathur
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TO: Thomas Harris / Reuben Baris, RM 07
Insecticide-Rodenticide Branch / RD (7505P)

Scr

Company Name: Rotam Agrochemical Company
Formulation Type: Insecticide

INTRODUCTION:

The registrant has submitted an application to register the new end use product Eamectin Benzoate 4% SL. The registrant has submitted a CSF for basic formulation (dated 09-18-2013). The supporting product chemistry group A and group B data was submitted with MRID Nos. 492196-01 and 492196-02. The registrant has submitted a proposed product label. TRB has been asked to determine the acceptability of the proposed basic CSF and the supporting product chemistry data.

SUMMARY OF FINDINGS:

1. Name of Active Ingredient(s): Eamectin Benzoate (4.0%)
2. Has the registrant claimed substantial similarity to a registered product?
[] Yes; [X] No; [] NA; if yes, give the registration number of the cited product.
Reg. No.

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3. All of the source materials of the active ingredient are derived from registered sources: ☒ Yes ☐ No

4. All inert ingredients have been screened by IIAB and found to be approved for the proposed labeled Uses: ☒ Yes; ☐ No

5. Confidential Statement of Formula(s):

☒ Proposed Basic - Dated: 09-18-2013; Resubmitted – Dated:

☐ Proposed Alternate CSF – Dated;; Resubmitted – Dated:

Alternate CSF(s) complies with 40CFR§152.43: ☐ Yes; ☐ No; ☒ NA

6. Product label

a. Ingredient statement: Nominal concentration of AI listed on CSF(s) concurs with product label (PR Notice 91-2).

☒ Yes; ☐ No; if not, explain below:

Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs other ingredient)

☒ Yes; ☐ No; if not, explain below:

Metallic equivalent: ☐ Yes ☒ NA

Soluble arsenic: ☐ Yes ☒ NA

Isomeric ratios: ☐ Yes ☒ NA

Acid Equivalent: ☐ Yes ☒ NA;

b. Health related sub statements: Product contains?

Petroleum distillate at > 10%: ☐ Yes ☒ No ☐ NA

Methanol at > 4%: ☐ Yes ☒ No ☐ NA

Sodium nitrate/Sodium Nitrite ☐ Yes ☒ No ☐ NA

c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for flammability, explosive potential or electric insulator breakdown?

☐ Yes; ☒ No

Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)?

☐ Yes; ☐ No; ☒ NA; if not, explain below

d. Label requires an additional Storage and Disposal statement:

☐ Yes; ☒ No; if yes explain below:

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7. Group A:

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	492196-01
830.1600	Description of materials used to produce the product		X		A	492196-01
830.1650	Description of formulation process		X		A	492196-01
830.1670	Discussion on the formation of impurities		X		A	492196-01
830.1700	Preliminary analysis			NA		
830.1750	Certified limits (158.350)	Standard certified limits	X		A	Basic CSF dated 09-18-2013
		Proposed Limits				
		Justification for wider limits				
830.1800	Enforcement analytical method		X		A	492196-02 With storage stability study

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver request, NA = Not applicable, I = In progress; U = Upgrade

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8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical State	Liquid	A	492196-02
830.6314	Oxidation/reduction	Test substance was compatible with water, 10% monoammonium phosphate, Zn powder & kerosene. TS was incompatible to 10% potassium permanganate	A	492196-02
830.6315	Flammability	No flash point observed	A	492196-02
830.6316	Explosibility	NA		
830.6317	Accelerated Storage stability	Stable for 2 weeks at 54°C in commercial container (F-HDPE)	A	492196-02
830.6320	Accelerated Corrosion characteristics	No corrosion was seen on commercial container (F-HDPE) when stored for 2 weeks at 54°C	A	492196-02
830.7000	pH	5.02 (1% aqueous dilution) at 20°C	A	492196-02
830.7100	Viscosity	37.3 mPa.s @ 20°C (100 rpm) 24.5 mPa.s @ 40°C (100 rpm)	A	492196-02
830.7300	Density	1.0622 gm/ml @ 20°C	A	492196-02

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C. CONCLUSIONS:

The TRB has reviewed the proposed basic CSF and the supporting product chemistry data for the new end use product and has concluded:

1. The proposed CSF for basic formulation (dated 09-18-2013) is acceptable.
2. The submitted product chemistry data corresponding to the guidelines 830 series group A are acceptable including 830.1800 (enforcement analytical method). This study is submitted along with the accelerated storage stability under MRID No. 492196-02.
3. The product chemistry data submitted for the 830 series group B data (physical-chemical properties) are acceptable.
4. Since the proposed product was found to be non-compatible with the oxidizing agent, it is recommended that the registrant add the following warning under Physical-Chemical Hazards on the product label:

“Do not mix or allow coming in contact with oxidizing agent. Hazardous Chemical reaction may occur”